

CAL POLY

REPORT

California Polytechnic State University, San Luis Obispo

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Engineering aims to be national model

The School of Engineering is taking two additional steps toward its goal of becoming a national model for undergraduate engineering education. The initiatives are in step with new National Science Foundation initiatives in engineering education and with the school's own Benchmark for Excellence capital campaign.

The first step was the appointment by Interim Dean of Engineering Peter Lee of five committees of the school's Dean's Advisory Council, made up of faculty, students, and industry representatives. The committees are intended to focus on areas receiving new NSF attention and to make Cal Poly's engineering programs more competitive for funding under the NSF initiatives.

Lee formed committees on faculty development, computing and communications, goals and planning, students affairs, and sustained industrial support at the Advisory Council's semiannual fall meeting, held on campus in November. The re-structured council held its best-attended meeting to date.

The second step is hosting a national Forum for Engineering Education Dec. 15-17, sponsored by the National Science Foundation and the first gathering of its kind intended to map the future of engineering education in the United States.

Bringing together representatives of many of the nation's top technical universities as well as representatives of industry, the forum will examine ways to attract engineers to teaching, develop the knowledge of engineering teachers, and continue educating practicing engineers.

Lee said the meeting is the

first that brings research-oriented universities and undergraduate, teaching-oriented institutions such as Cal Poly together to look at the broad picture of engineering education.

"The graduate institutions realize the issue of quality in engineering education is important enough that we need to combine forces," Lee said.

National problems such as the decline in the competitiveness of American industry, the drain of engineering teachers to industry, and the aging of engineering faculties have prompted the NSF to begin a \$68 million effort to upgrade engineering education, especially at the undergraduate level.

The NSF's governing National Science Board recently established a new Office of Undergraduate Science, Engineering, and Mathematics Education to lead initiatives aimed at laboratories, curricula, faculty, students and institutional programs.

The three-day conference at Cal Poly is one of the first steps in that effort and the first NSF conference of its type to be held at the university.

In addition to Cal Poly faculty members, participants will include about 50 invited deans and faculty members from such schools as Auburn, Georgia Tech, MIT, San Jose State, Stanford, Texas A&M, UC Berkeley and the University of Michigan.

Forming the Advisory Council committees and hosting the forum jibe with the school's Benchmark for Excellence in Undergraduate Engineering Education Campaign, a five-year, \$30 million fund-raising effort now within \$6 million of its goal. The campaign is intended to provide the additional resources the school needs to set a national standard.

Fall Commencement

Certificates and degrees will be conferred on 930 candidates during the 1987 Fall Commencement at 10 am on Saturday, Dec. 12, in the main gym.

Conferring the degrees will be President Baker. Joseph W. Cotchett, an author, trial attorney, and alumnus of the university, will deliver the commencement address.

Music for the campus graduation ceremony will be provided by the University Singers, a mixed vocal ensemble. Dr. Thomas Davies of the Music Department faculty is the choir's conductor.

About 500 of the degree candidates and some 3,000 of their families and friends are expected to attend the ceremony.

Halpern resigns

Dr. Stan Halpern, who has headed the university's Annual Giving program since 1983, has resigned. Development Director Chuck Allen will fill in until a permanent replacement is hired. A national search is planned to begin later this month.

December payday

The December Cal Poly payday for faculty and staff is Dec. 31. However, because this date is an official campus holiday, special arrangements have been made to have the Cashiers' Office open between the hours of 3 and 5 pm for the release of the payroll warrants. Please contact the Payroll Services Office, ext. 2605, if you have any questions about the December payday.

Harold Hodgkinson to speak here Jan. 7

Dr. Harold Hodgkinson, well known for his research on demographics and education, will speak at Cal Poly on Thursday, Jan. 7.

His talk at 7:30 pm in Chumash Auditorium will focus on the future demographics of California, with special emphasis on Cal Poly and the local community.

Hodgkinson's appearance is sponsored by the Office of the Vice President for Academic Affairs.

Xmas trees for sale

The Cal Poly Logging Team and the Society of American Foresters are selling red fir (silver tip) Christmas trees. They are available at the Natural Resources Management greenhouse (located behind the Ornamental Horticulture Unit), on weekdays from 2-5 pm and weekends from noon to 5 pm.

For more information, call the NRM Department, ext. 2702.

Holiday CPR schedule

This is the final issue of the *Cal Poly Report* for Fall Quarter. The first issue for Winter Quarter will be Thursday, Jan. 7. The copy deadline is the Thursday preceding the publication date.

Vision plan deadline

The initial enrollment period for the new Blue Shield/Medical Eye Services vision insurance plan has been in progress since spring of this year to provide ample time for all eligible employees to enroll. As most employees have enrolled, a deadline of Jan. 4, has been set as the last day to enroll in the vision plan. This is the final oppor-

tunity for eligible employees, those in halftime or greater appointments of over six months in duration (.40 time base for lecturers/coaches), to enroll or add dependents they may have omitted at initial enrollment. There will be no future open enrollments for the vision plan, and dependents may be added or deleted only when a permitting event occurs. To enroll, employees must come to the Personnel Office and complete the vision enrollment forms. Questions regarding the vision insurance plan should be directed to Joyce Haratani, Personnel, ext. 2236.



Issues concerning nuclear weapons to be Extension course

Nuclear winter, strategic defense (star wars), national security and nuclear arms control are some of the topics for an Extension class beginning Jan. 5.

The course, "Nuclear Weapon Issues," is designed for the general public. Professors representing eight academic departments will lecture on aspects of nuclear weapon issues within their areas of expertise. Films presenting various points of view on national security controversies will be shown.

The class will meet on Tuesdays, 7-9:30 pm, Jan. 5 - March 15. The enrollment fee is \$25 for non-credit or \$45 for 3 units of professional credit. To enroll, call Extended Education, ext. 2053.

The course was developed by a committee of 15 professors who want to promote instruction about nuclear weapon issues. Faculty interested in joining this committee can obtain further information by contacting Linden Nelson, Psychology and Human Development, ext. 2320.

Who, What, Where, When

John Merriam, Ag Engineering, took part in the Congress of the International Committee on Irrigation and Drainage held in Casablanca, Morocco, in September. He presented a paper about his work in Sri Lanka, which involved the use of concrete pipelines and automated supply systems to obtain flexible deliveries. While there, he met two of his former students from Africa, Emen Nwa and Hamidi Lam, who are now heads of agricultural colleges in Nigeria and Mauretania.

W. Mike Martin, Architecture, presented a paper, "Reconstructing Architectural Education — Is There Room for Liberal and Professional Learning?" at the Western Regional meeting of the Association of Collegiate Schools of Architecture at the University of Oregon.

Randall Murray, Journalism, was invited to take part in the annual Seminar for Journalism Educators at the American Press Institute in Reston, Va.

James H. Hayes, Journalism, lectured recently on "News Releases and Newsletters" to the annual workshop of the California Association of Public Information Officers (CAPIO) in San Luis Obispo.

Ilene Rockman, Library, presented an invited address on "Finding the Opportunity: Using Your Daily Work As A Basis For Research" at the Fall Program of the California Academic and Research Librarians (North) at Santa Clara University.

Barbara L. Rowland Mori, Social Sciences, presented a paper, "Non-Japanese Students of Chado (Tea Ceremony) in Japan," at the Western Conference of the Association for Asian Studies, in Tucson.

Diane Michelfelder, Philosophy, presented a paper, "Jacques Derrida and the Ethics of the Ear," at the annual meeting of The Society for Phenomenology and Existential Philosophy at the University of Notre Dame.

James L. Webb, Physical Education and Recreation Administration, participated in the national meeting of the Association for Fitness in Business in St. Louis, where he was one of 16 individuals awarded "Fellow" status in the organization.

(Cont. on next Page)

...Who, What When, Where

Mary Beth Armstrong, *Accounting*, published an article, "Moral Development and Accounting Education," in the Spring 1987 issue of the *Journal of Accounting Education*.

Mary Beth Armstrong, *Accounting*, has had a paper, "Public Accounting: A Profession At A Crossroads," accepted for publication in *Accounting Horizons*.

Earl Keller, *Accounting*, co-authored the monograph, "The Impact of Electronic Technology at the SEC: An Analysis of Policies Governing the Content and Dissemination of Corporate Disclosures," published by the Financial Executives Institute and the SEC and Financial Reporting Institute at the University of Southern California.

John C. Robison, *Accounting*, co-authored the paper, "Choosing District Court Over Tax Court: Some Case Characteristics," published in the Aug. 24, 1987, issue of *Tax Notes*.

Nelson Smith III, *Industrial Technology*, presented, "Tools of the Quality Professional," to the San Luis Obispo chapter of the American Association of Quality Control (ASQC). The chapter presented Smith with an award recognizing his many contributions to quality. Many of his former students were at the presentation.

Karl I. Bakken, *Ag Education*, was recently awarded the Honorary Regional Farmer degree by the Southern and Southwestern Regions Future Farmers of America during the annual Southern California FFA Leadership Conference. This was a very special honor to Bakken because it came simultaneously, for the first time in the 60-year history of the California FFA, from both regions.

David B. Walch, *Library*, has presented a paper on the relationship between academic libraries and campus computing systems at two meetings: New York Library Association meeting held in Lake Placid, N.Y., and the California Library Association meeting in Santa Clara.

Robert Hoover, *Social Sciences*, presented a paper, "Acculturation at Mission San Antonio," at the meeting of the American Society for Ethnohistory in Berkeley. The paper summarized Cal Poly's 12 years of research at the mission.

Artemis Papakyriazis, *Economics*,

published an article "Controlling Environmental Systems: An Adaptive Control Approach," in the journal *Mathematical Modeling*.

Raymond Zeuschner, *Speech Communication*, organized and chaired two sessions: "Great Ideas for Teaching Speech" for the Speech Communication Association national convention in Boston.

Harry Sharp Jr., *Speech Communication*, presided at a competitive papers panel in public address and recruiting faculty at the Speech Communication Association national convention in Boston.

David Henry, *Speech Communication*, presented three papers at the Speech Communication Association national convention in Boston: "Senator John F. Kennedy Encounters the Religious Questions: I Am Not the Catholic Candidate for President"; "Rhetorical Dimensions of the Scientists' Movement, 1945-1960;" and "The Day the Music Stopped: Reagan, Iran-Contra, and the Limits of the Rhetorical Presidency."

Satwant Rihal, *Architectural Engineering*, participated in the Second U.S.-Mexico Workshop on 1985 Mexico Earthquake Research, held in Mexico City. He made a presentation on his recent research assessing the earthquake hazard of heavy facades and their connections. The workshop was sponsored by the National Science Foundation and organized by the Earthquake Engineering Research Institute.

Mark Shelton, *Crop Science*, had a book review of "Integrated Pest Management for Almonds" published in the Fall 1987 issue of the *Bulletin of the Entomological Society of America*.

Edgar H. Beyer, *Crop Science*, presented a paper, "Pest Resistance Through Biotechnology," to the Central Coast California Agricultural Production Consultants Association Chapter in San Luis Obispo.

W.S. Mott, *Graphic Communication*, had an article, "Where Stands Standardization for Sheetfed?," published in the October issue of *High Volume Printing* magazine.

John Stead, *Industrial Technology*, wrote an article, "Bridging the Gap Through Cooperative Education," for the October issue of the *Journal of Packaging Technology*.

Max E. Riedlsperger, *History*, presented a paper, "Yoreg Hieder FPOe Election Victory, 1986," at the National Meeting of the German

Studies Association in St. Louis.

Maurice Phipps, *Physical Education and Recreation Administration*, published a chapter, "Group Dynamics in the Outdoors, a Model for Teaching Outdoor Leaders," in "High Adventure Outdoor Pursuits" (2nd Ed.), published by Publishing Horizons, Inc.

Mike Swiderski, *Physical Education and Recreation Administration*, presented a paper, "Soft Skills: The Most Often Overlooked Components of Outdoor Leadership Training" at the National Conference on Experiential Education at Port Townsend, Wash.

Donald Lazere, *English*, is the author of an ERIC Digest pamphlet, "Critical Thinking in College English Studies," published by the ERIC Clearinghouse on Reading and Communication Skills.

Charles Strong, *English*, gave a presentation, "Technical Writing: The Concrete, The Particular, The Purposeful," at the California Reading Association Conference in Sacramento.

Greg Barata, *Music*, has had an article, "Sources of Information on Woodwind Multiphonics: An Annotated Bibliography," published in "Perspectives of New Music," Vol. 26/1.

David Warfield, *Crop Science*, conducted a workshop on undergraduate education of foreign students at the American Society for Horticultural Science meetings in Orlando, Fla.

Jim Greil, *Crop Science*, organized a Central Coast California Agricultural Production Consultants Association continuing education seminar in San Luis Obispo.

Andrew Young, *CIM Center*, **Dan Levi** and **Chuck Slem**, *Psychology and Human Development*, co-authored an article, "Dispelling Some Myths About People and Technological Change," which appeared in the November issue of "Industrial Engineering" (Vol. 19, No. 11).

Rhonda Riggins, *Biological Sciences*, has been appointed to the editorial board of "Systematic Botany," the journal of the American Society of Plant Taxonomists.

Richard A. Pimentel and **Rhonda Riggins**, *Biological Sciences*, published a paper, "The Nature of Cladistic Data," in "Cladistics," the International Journal of the Willi Hennig Society, Vol. 3, No. 3, 1987.

Position Vacancies

Vacant staff positions at Cal Poly and the Cal Poly Foundation are announced in this column and are posted outside the respective offices. Contact those offices (State: Adm. 110, 805-756-2236) — Foundation: mobile unit near the Fire Department (805-756-1121) for applications and additional position details. Both Cal Poly and the Foundation are subject to all laws governing affirmative action and equal employment opportunity. Cal Poly hires only individuals lawfully authorized to work in the United States. All eligible and interested persons are encouraged to apply. Applications must be received by 5 pm or postmarked by the closing date.

State

CLOSING DATE OF: 12-16-87

Administrator I, \$2516-\$3073/month, Manager, Housing Facilities & Services, Housing & Conference Services.

Clerical Assistant II-C, \$1110-\$1309/month; 10/12 pay schedule, English Dept.

Clerical Assistant III/IV-A, \$1545-\$2033/month; Initial appointment at CA III-A level with appointment to the CA IV-A level after successful completion of training program. Student Academic Services.

Radiologic Technologist I, \$11.40-\$13.71/hour; on-call, intermittent, Student Health Services.

CLOSING DATE OF: 12-23-87

Accountant I, \$2259-\$2718/month; temporary through 6-30-88, Internal Auditor, Fiscal Operations.

Administrator II, \$2083-\$4611, Computer Operations Manager, Information Systems.

Clerical Assistant II-A, \$666-\$785.50/month; half-time, temporary through 6-30-88; work hours/days flexible, Agricultural Education Dept.

Clerical Assistant II-A, \$666-\$785.50/month; half-time, temporary through 6-30-88 with possibility of permanency, Physical Education & Recreation Administration Dept.

Clerical Assistant III-A, \$1545-\$1829/month; 10 months, Sept. through June. Student Health Services.

Operating Engineer, \$1948-\$2132/month; 8 months temporary; rotating 24-hour shifts, Plant Operations.

CLOSING DATE: 1-6-88

Department Secretary II, \$1577-\$1868/month '86-'87 salary schedule, with increase due 1-1-88, Education Dept.

Candidates for positions on the faculty of the university are presently being sought, according to Jan Pieper, director of personnel and employee relations. Those interested in learning more about the positions are invited to contact the appropriate dean or department head. Salaries for faculty commensurate with qualifications and experience (and time base where applicable), unless otherwise stated. This university is subject to all laws governing Affirmative Action and equal employment opportunity including but not limited to Executive Order 11246 and Title IX of the Education Amendments Act and the Rehabilitation Act of 1973. Cal Poly hires only individuals lawfully authorized to work in the United States. All eligible and interested persons are encouraged to apply.

CLOSING DATE: 12-24-87

Lecturers (part-time), Aeronautical Engineering. Teaching departmental courses for Winter, and/or Spring, and/or Summer Quarters, 1988. B.S. required; M.S. preferred, teaching and industrial experience in the discipline preferred.

CLOSING DATE: 12-28-87

Lecturers (part-time), Social Sciences Dept. is re-establishing a pool of applicants for possible part-time positions in Anthropology, Geography and Sociology for either Winter and/or Spring Quarters, 1987-88. Ph.D. preferred; MA considered.

CLOSING DATE: 1-15-88

Lecturers (part-time), Ornamental Horticulture Dept. for quarter by quarter positions during the 1987-88 academic year including Summer Quarter 1988. Master's degree in appropriate discipline required; Ph.D. in appropriate discipline preferred.

CLOSING DATE: 2-15-88

Lecturers (full-time), Dairy Science, 1988-89 academic year. Position renewable for one year based on satisfactory performance and position availability. Teaching dairy science classes and assisting with dairy cattle judging and advising student co-curricular activities. B.S. degree required with M.S. or Ph.D. preferred and with dairy cattle experience.

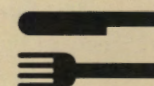
CLOSING DATE: 3-7-88

Lecturer (full-time, possible renewal), Speech Communication for 1988-89 academic year. Teach lower division courses in critical thinking,

fundamentals of speech, and public speaking. Master's degree and successful teaching in speech communication required (ABD preferred).

CLOSING DATE: 3-21-88

Assistant Professor, Theatre and Dance, available September 1988. Teach Theatre History, Introduction to Theatre and other courses; direct one or two major productions each year. Three years' college teaching and directing experience and Ph.D. or equivalent professional experience required.



Holiday food service hours

Thursday, December 10

Normal schedule, except Vista Grande Cafeteria will close after lunch.

Friday, December 11

Normal schedule, except Vista Grande closed, Burger Bar and Julian's will close at 5 pm.

Saturday, December 12

VG Restaurant 11 am - 8 pm
Burger Bar 8 am - 2 pm
Campus Store 9 am - 5 pm

Sunday, December 13

VG Restaurant 9 am - 2 pm

Monday - Friday, December 14-18

Staff Dining Room 7 am - 2 pm
Campus Store 7 am - 6 pm

Saturday & Sunday, Dec. 19 & 20

ALL AREAS CLOSED

Monday - Wednesday, Dec. 21-23

Staff Dining Room 7 am - 2 pm
Campus Store 7 am - 6 pm

Thursday - Sunday, Dec. 24-27

ALL AREAS CLOSED

Monday - Wednesday, Dec. 28-30

Staff Dining Room 7 am - 2 pm

Thursday & Friday, Dec. 31 & Jan. 1

ALL AREAS CLOSED

Saturday, January 2

VG Restaurant 11 am - 8 pm
Campus Store 9 am - 10 pm
Burger Bar Noon - 10:30 pm

Sunday, January 3

VG Restaurant 9 am - 8 pm
Burger Bar Noon - 10:30 pm
Campus Store 9 am - 10 pm